

CLIMATOLOGICAL DATA FOR JANUARY, 1912.

DISTRICT No. 3, OHIO VALLEY.

Prof. FERDINAND J. WALZ, District Editor.

GENERAL SUMMARY.

The month as a whole was remarkably cold over all of the district and ranks among the coldest months of which there are authentic records. Over the northern, central, and eastern portions of the district it was the coldest January on record, while in many places it was the coldest entire month experienced during the past several decades. From the 1st to the 16th, inclusive, the weather was persistently colder over a larger area than during any similar period in recent years. In quite a few localities the extreme low temperature reached was lower even than during the historic cold February of 1899, which has stood as the record severe cold experienced in this section of the country during the last half century. In most places, however, while the cold period lasted longer and perhaps was more distressing on that account, the thermometer did not reach quite so low a point as in February, 1899, and, in fact, during one or two other severe cold waves shown in the Weather Bureau records. Also, the intense cold was not as pronounced over Tennessee and the southern border sections as over the more northerly and easterly portions of the district. But while severe in these sections as well, relatively severer cold has been felt four or five separate times in comparatively recent years.

A special bulletin by the official in charge, local office United States Weather Bureau, Cincinnati, Ohio, contains the following statements which are typical of the conditions which obtained throughout the greater portion of the Ohio Valley:

The period of 13 days from January 4 to 16, inclusive, was one of the longest spells of cold weather recorded by the local office of the Weather Bureau since the service was established, more than 40 years ago. The average temperature for the whole 13 days was 10°, and on 3 days and for a total length of 25 hours the temperature was below zero, the lowest being 9° below zero, on the 7th. Only once during the period did the temperature go above freezing, and it remained above that point for less than one hour. During the past 40 years there has been but one other period of 13 days or longer when the temperature averaged as low as 10°, and that was from January 8 to 20, 1893. At that time the temperature was below zero on five days, with the lowest 11° below zero.

Although the lowest temperature on record for this station occurred in the month of February, there has been no period of 13 days in that month when the average temperature was as low as 10°. The nearest approach to this was during the famous cold February of 1899, when the average temperature from the 4th to 16th, inclusive, was 11°. However, during that month there was one week when the temperature averaged just zero; also it was below zero during six of the seven days and reached 17° below zero, the lowest on record here.

The month was cold all through, but more moderate conditions prevailed after the 18th. Precipitation was generally below normal, although there was an abundance

of snow and it was of frequent occurrence over nearly all of the district, at least as far south as northern Tennessee. The ground was frozen during practically the entire month and was covered with snow during the greater part of it. Over the more northerly and easterly sections of the district there were few, if any days, without some snow covering.

Streets and roads were very icy and many people were injured by falling. The protracted cold weather caused much suffering, there were several deaths from exposure, and nearly all outdoor work was suspended. Transportation roads, especially the steam lines, were hindered and much delayed by the extreme cold weather and on several days by heavy snow. A coal famine was threatened at several places and business generally suffered. An abundant crop of splendid natural ice, however, was harvested generally.

The director of the State agricultural experiment station at Wooster, Wayne County, Ohio, reports that the peach buds in that vicinity were killed by the low temperature on the 13th. Prof. J. Warren Smith, section director at Columbus, Ohio, believes that the peach crop will be a total failure throughout the State, except possibly on the tops of hills and along the lake shore. See his special article in that connection herein.

Besides two or three heavy snowfalls which delayed traffic generally, the chief damaging storm was the rain and sleet storm of the 28th-29th, confined largely to Ohio, western Pennsylvania, and West Virginia, and injuring mostly fruit trees and electric wires.

The following table summarizes the chief features of meteorological interest for the several sections of the district:

Portions of States included in the Ohio River Basin.	Temperature.				Precipitation.						
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greatest in 24 hours.	Average number of days.	Average snowfall.
New York.....	14.2	- 8.8	47	-30	2.53	-0.35	3.14	1.86	0.85	14	13.4
Pennsylvania.....	18.1	-10.0	57	-34	2.34	-1.19	3.72	1.52	1.30	15	14.9
Maryland.....	18.4	- 9.0	54	-40	2.32	-1.71	2.75	1.90	0.40	14	22.8
West Virginia.....	23.6	- 8.9	66	-34	2.75	-1.07	6.93	1.37	1.90	13	13.8
Ohio.....	19.1	-10.0	58	-37	2.07	-0.90	3.54	1.09	1.61	11	10.3
Indiana.....	18.6	-10.5	58	-28	2.50	-0.44	6.70	0.70	1.85	8	10.1
Illinois.....	19.2	-10.5	58	-26	2.17	-0.70	4.57	0.95	1.76	6	10.3
Kentucky.....	25.9	- 9.3	61	-20	3.09	-0.92	4.70	1.64	2.00	8	12.1
Tennessee.....	33.2	- 5.4	69	-16	3.36	-1.01	5.24	1.78	2.47	8	3.5
Alabama.....	35.7	- 5.9	68	3	3.89	-0.69	4.74	2.84	2.60	8	1.2
Georgia.....	34.4	- 5.5	68	0	4.58	-0.75	5.05	4.11	2.10	8	4.2
North Carolina.....	32.4	- 4.5	70	- 8	3.09	-1.66	6.10	0.86	3.34	8	4.8
Virginia.....	26.4	- 6.9	58	-19	2.59	-0.92	4.72	1.29	1.60	9	8.1

TEMPERATURE.

Following an unusually warm December, January, 1912, began raw and cold, and during all of the first three weeks the temperature was continuously below normal, except on one day, namely, the 18th. On many of the days in this three-week period the average temperature ranged between 10° and 37° below normal. This remarkably prolonged cold period was in reality made up of three severe cold waves: (1) culminating about the 7th, with minimum temperatures ranging between zero and -23° , except in the extreme southern sections; (2) culminating about the 13th, with minimum temperatures ranging as low as -20° to -40° , and (3) culminating about the 16th, with minimum temperatures ranging from zero to -20° . As a rule the first cold wave was more severe over much of the western and central portions of the district than either of the other two, and the lowest temperature of the month was reached at that time at many places in those sections. However, the most intense cold was experienced over the greater portion of the northern and all of the northeastern sections of the district on the 13th, while the 16th was the coldest at many places in Kentucky and in the southeastern sections of the district.

The 18th, 22d, and 23d were comparatively warm, and the highest temperatures of the month, ranging from 45° to 60° , were registered on one of those days in Kentucky and in the more northerly sections of the district. In Tennessee and the more southerly sections, however, the temperature was notably high on the 26th and 27th, registering between 60° and 70° . From the 22d to the 29th, inclusive, the temperature was above normal over most of the western, central, and southern sections of the district, but continued quite cold over central Ohio and eastward from the 24th to the 28th, inclusive, while the last 2 days of the month were very cold over all of the district.

For the month as a whole the temperature averaged from 9° to 12° below normal in all the northern half of the district, including Kentucky, and it was the lowest for any January of record, while in many sections it averaged the lowest for any month of record, extreme low temperature records also being broken at many stations. Over Tennessee and sections to the southward the temperature averaged from 4° to 7° below normal, and while very cold, January average temperatures have been lower several times during the years for which records have been maintained.

PRECIPITATION.

The total amount of precipitation for the month, that is, the rainfall plus the water equivalent of the snowfall, was somewhat below the January normal in all parts of the district. The distribution was quite uniform, there being no large deficiency over any extensive area. On account of the low temperature which so largely prevailed, precipitation was mostly in the form of snow, there being a marked absence of the usual winter heavy rains. Snowfall was abundant over the district north of the Ohio River as well as over Kentucky and all the Appalachian sections of the district, the amount at the various stations ranging from 8 to 34 inches. Over Tennessee, North Carolina, and the northern portions of Georgia and Alabama snow was rather frequent but the amount with each storm was usually slight.

The ground was generally bare of snow during the first three or four days of the month, or until the general snowstorms of the 4th-7th. These snows with additions from time to time continued on the ground practically unmelted

until the mild temperature and light rain of the 18th caused most of it to disappear; subsequently comparatively little remained on the ground other than in the higher elevations of the upper watersheds. There were additional snows and meltings during the last decade of the month, but the falls were mostly light and largely confined to Ohio and the western portions of Pennsylvania and Maryland. At the end of the month there were from 3 to 7 inches on the ground over the upper Allegheny watershed; less than 1 inch over the remaining portions of the watersheds of the upper Ohio and tributaries, and only a little here and there elsewhere in the district.

RIVERS.

All tributaries of the Ohio River above Pittsburgh were frozen over by the 8th. The Allegheny remained frozen the rest of the month, but the Monongahela and tributaries were open after the 18th, except where gorged by ice here and there. The Wabash River was frozen from the 5th to the 19th, and a threatening gorge formed near Mount Carmel, Ill., during the last decade of the month, causing flood stages of water and some damage. Good navigable stages of water were maintained in both the Tennessee and Cumberland Rivers throughout the month and there was very little trouble in those rivers from ice. The flood in the Cumberland at the beginning of the month subsided by the 6th without any material damage. Ice gorges formed at various places in the Ohio River, but no damage of consequence resulted. Navigation was closed over the greater portion of the Ohio River above the mouth of the Wabash from the 8th to the 19th on account of ice and ice gorges.

WINTER DAMAGE TO PEACHES.

[By J. WARREN SMITH, Professor of Meteorology, United States Weather Bureau.]

Investigation by the writer shows that whenever the temperature has fallen to about 17° below zero at Wauseon, Ohio, any time during the winter, there have been practically no peaches raised in the county in which Wauseon is located the following summer.

Prof. W. J. Green, of the Ohio Agricultural Experiment Station, states that in the most tender varieties of peaches buds will be killed with a minimum temperature of -12° , no matter how dormant the buds may be. Others may stand a temperature of 15° to 18° below zero.

Inasmuch as the lowest temperature during January, 1912, varied from 5° below zero at Columbus, Sandusky, and Toledo to over 30° below zero in some counties, the question as to the actual damage to the peach crop in Ohio is an interesting one.

In order to give all the light possible on the matter, the following table has been prepared. In this the stations have been grouped to show the differences in temperature under different conditions of exposure.

At Toledo the lowest recorded was only 5° below zero, but at Bowling Green, only a few miles away, it was -21° . At Sandusky the temperature was -5° , while at Vickery, only about 2 miles from the bay, it was -18° . At the Weather Bureau office in Cleveland the lowest was -8° , and at the St. Ignatius College station, only slightly farther from the lake, -18° . At Hillhouse, in Lake County, the temperature fell to -24° and at Conneaut, in Ashtabula County, to -22° . These figures all show that if the comparatively higher temperatures at Toledo, Sandusky, and Cleveland were due to the influence of Lake Erie the effect was not felt far from the shore of the lake.

TABLE 1.—Climatological data for January, 1912. District No. 3, Ohio Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>New York.</i>																				
Allegany.....	Cattaraugus.....	1,441	6	14.2	-8.8	47	18	-30	13	36	3.14	-1.02	0.80	15.5	23	6	7	18	nw.	Charles E. Whitney.
Bolivar.....	Allegany.....	1,800	18	14.2	-8.8	47	18	-27	13	34	1.86	-0.44	0.44	11.6	11	3	15	13	nw.	Charles F. Hoffman.
Olean.....	Cattaraugus.....	4									2.59		0.85	14.1	19	3	6	22	w.	John W. Alles.
<i>Pennsylvania.</i>																				
Aleppo.....	Greene.....	1,135	11	20.4	-10.0	54	18	-27	12	49	1.74	-1.80	0.60	11.0	11	2	5	24	nw.	J. S. Hinerman.
Baldwin.....	Butler.....	1,404	6	16.4	-1.4	47	18	-21	13	34	1.98	-0.34	0.34	19.1	15	0	0	31	w.	S. H. Templeton.
Beaver Dam.....	Beaver.....	674	18								2.06	-0.63	0.45	19	1	4	26	w.	U. S. Engineer.	
Brookville.....	Jefferson.....	1,173	21	19.3	-1.4	50	19	-1	10	44	1.99	-1.01	0.45	17.9	8	2	0	29	w.	H. C. Bartholomew.
Clarion.....	Clarion.....	1,078	27								1.52	-2.26	0.38	12.5	13	2	0	29	w.	J. A. Miller.
Claysville.....	Washington.....	1,127	8	20.7	-1.4	53	18	-23	13	46	2.10	-1.49	0.49	9.5	11	6	8	17	w.	E. T. Buchanan.
Confluence.....	Somerset.....	1,352	28								1.81	-2.18	0.32	14	5	4	22	ne.	Grant Pyle.	
Franklin.....	Venango.....	955	38	15.0	-11.2	50	1	-30	13	42	2.66	-1.04	0.65	11.3	15	7	1	23	nw.	F. E. Dixon.
Freepo.....	Armstrong.....	772	39								2.00	-1.79	0.30	9.8	16	5	3	23	.....	Mrs. Anna R. Burtner.
Greensburg.....	Greene.....	768	23								2.18	-1.51	0.54	8.5	14	1	2	28	sw.	James G. Cramer.
Greenville.....	Mercer.....	950	16	15.8	-11.4	45	18	-27	13	47	3.50	-0.22	0.79	21.2	15	9	6	16	nw.	A. M. Orr.
Indiana.....	Indiana.....	1,350	15	18.7	-10.3	53	18	-21	13	38	2.23	-1.35	0.30	18.0	13	3	7	16	w.	R. W. Wahlre.
Johnstown.....	Cambria.....	1,184	24	20.8	-9.0	47	22	-18	13	36	2.85	-1.28	0.46	22.2	22	2	13	16	sw.	E. C. Lorentz.
Lock No. 4.....	Washington.....	718	26								1.78	-1.28	0.50	13	0	0	7	24	sw.	R. T. McGowan.
Lycippus.....	Westmoreland.....	1,420	20	19.6	-9.5	54	18	-17	13	36	2.55	-0.96	0.67	13.7	15				.....	Murray Forbes.
Pittsburgh.....	Allagheny.....	842	42	20.4	-10.3	54	18	-6	13	37	1.90	-0.97	0.40	13.8	24	1	10	20	w.	U. S. Weather Bureau.
Saegerstown.....	Crawford.....	1,116	21	15.8	-9.6	44	19	-34	13	49	3.72	+0.38	1.28	21.5	20	2	11	18	sw.	J. G. Apple.
Skidmore.....	Lawrence.....	1,000	8	15.4	-10.4	42	19	-25	13	43	2.95	-1.30	0.50	25.5	13	0	11	20	n.	W. H. Stoner.
Somerset.....	Somerset.....	2,250	56	15.6	-10.4	51	18	-25	13	45	2.90	-1.82	0.48	21.2	16	4	5	22	w.	W. M. Schrock.
Uniontown.....	Fayette.....	999	24	23.0	-9.2	57	18	-19	13	42	2.08	-1.49	0.40	19.3	16	5	1	25	nw.	Wm. Hunt.
Warren.....	Warren.....	1,137	23	15.6	-9.5	47	18	-24	13	39	2.70	-0.21	0.40							Anna Simpson.
<i>Maryland.</i>																				
Deer Park.....	Garrett.....	2,457	18	18.0	-8.1	51	18	-33	13	47	2.75	-1.04	0.40	27.5	13				.....	S. P. Specht.
Grantsville.....	do.....	2,351	18	18.5	-8.5	54	18	-25	13	40	2.30	-1.29	0.40	21.5	13	4	7	20	.....	J. S. Miller.
Oakland.....	do.....	2,461	12	18.6	-10.5	52	18	-40	13	53	1.90	-2.79	0.40	19.3	17	5	8	18	w.	R. E. Weber.
<i>West Virginia.</i>																				
Bancroft.....	Putnam.....	574	10	25.4	-1.4	61	22	-12	13	54	3.03	-0.94	0.57	10.2	10	8	0	23	ne.	R. E. Dent.
Beckley.....	Raleigh.....	2,440	12	24.1	-9.0	54	23	-10	13	56	2.72	-0.93	0.90	10.0	11	11	3	17	w.	John A. Ewart.
Bens Run.....	Taylor.....	622	10	22.4	-9.8	54	18	-13	13	37	2.19	-2.02	0.65	16.0	13	17	4	10	.....	J. D. Riggs.
Bluefield.....	Mercer.....	2,563	17	27.8	-6.2	53	23	-2	16	45	2.55	-0.53	0.60	20.5	9	13	1	17	.....	Norfolk & Western R. R. Co.
Buckhannon.....	Upshur.....	1,472	21	22.7	-9.2	57	18	-25	13	55	3.73	-0.24	1.05	21.2	16	8	2	21	.....	H. A. Darnall.
Cairo.....	Ritchie.....	667	10	25.4	-9.6	60	1	-27	13	47	1.42	-2.88	0.30	10.0	8				.....	Van A. Zevely.
Central Station.....	Doddridge.....	900	11	22.4	-9.2	52	18	-27	13	50 ^a	1.61	-1.96	0.37	9.2	12	1	14	16	w.	G. W. Sherwood.
Charleston.....	Kanawha.....	598	24	23.3	-1.4	60	18	-6	13	44	2.56	-1.03	0.65	10.0	13	8	7	16	w.	R. C. Hewes.
Creston.....	Wirt.....	612	11	25.4	-8.1	53	18	-26	13	48	2.69	-0.65	0.68	10.5	11	7	5	19	w.	J. M. Reed.
Cuba ^b	Jackson.....	544	10	24.4	-9.1	52	18 ^b	-27	13	50	2.10	-1.27	0.22	10.2	12	5	13	11	.....	C. T. Perry.
Elkhorn.....	McDowell.....	1,933	19	29.0	-7.8	58	22	-2	16	45	4.58	+1.71	0.75	18.3	13	10	3	18	w.	J. J. Lincoln.
Elkins.....	Randolph.....	1,940	13	22.0	-6.8	55	18	-20	13	54	2.88	-0.46	0.80	13.6	22	4	9	18	w.	U. S. Weather Bureau.
Glenville.....	Marion.....	879	18	21.4	-9.6	55	18	-20	13	48	1.73	-2.09	0.43	10.2	18	10	3	18	w.	F. P. Hall.
Grafton.....	Gilmer.....	738	22	25.4	-7.3	55	1 ^b	-20	13	56	3.46	+0.27	1.15	13.0	14	12	4	15	.....	John Holt.
Green Sulphur Springs.....	Taylor.....	985	18	25.4	-6.9	66	1	-27	13	50	3.40	-0.59	0.84	16.8	16	11	5	15	w.	Joseph Gerken.
Hinton.....	Summers.....	1,600	16	23.4	-9.7	55	1	-13	14	40	2.40	-0.48	0.70	13.8	19	9	4	18	w.	Arthur George.
Huntington.....	do.....	1,400	21	24.5	-10.8	59	23	-5	14	41	2.42	-0.54	0.68	17.0	9	12	4	22	w.	J. B. Lavender, C. E.
Lewisburg.....	Cabell.....	510	17	24.4	-8.6	54	18	-12	13	51	2.38	-1.21	0.74	11.0	8	7	2	22	w.	L. H. Hutchinson.
Lewis.....	Greenbrier.....	2,200	11	23.0	-9.5	54	1	-12	14	32	2.17	-1.27	0.79	12.0	6	14	3	14	nw.	Geo. T. Argabrite.
Logan.....	Logan.....	665	10																.....	Geo. A. Deem.
Lost Creek.....	Harrison.....	1,033	15	21.8	-10.8	56	18	-27	13	54	2.06	-1.77	0.68	11.8	12	4	6	21	sw.	Allen Smith.
Madison.....	Boone.....	704	8																.....	S. E. Bradley.
Mannington.....	Marion.....	967	10	23.0	-5.8	55	18	-31	13	53	2.06	-2.62	0.55	10.6	18	3	9	19	w.	Jas. A. Morgan.
Marlinton.....	Pocahontas.....	2,169	17	23.2	-5.8	54	1	-19	14	45	2.46	-1.09	0.70	11.5	9	14	3	14	.....	C. J. McCarty.
Martontown.....	Monongalia.....	1,250	36	23.6	-8.7	56	18	-16	13	44	2.43	-1.53	0.60	15.5	12	10	5	16	.....	Horace Atwood.
Moundsville.....	Marshall.....	640	10	22.2	-10.4	55	18	-21	13	43	1.37	-1.72	0.41	9.0	10	5	18	.....	M. L. Brown.	
New Cumberland.....	Hancock.....	987	14	19.5	-8.9	49	18	-20	13	43	1.62	-0.85	0.42	4.0	6	4	2	25	.....	Frank S. Evans.
New Martinsville.....	Wetzel.....	634	18	23.6	-9.3	53	18	-16	13	46	1.67	-1.86	0.70		6	4	8	19	.....	Wm. Ankron.
Nuttallburg.....	Fayette.....	2,252	18																.....	Miss Donna Tully.
Parkersburg.....	Wood.....	638	24	22.4	-8.9	52	18	-12	13	38	2.05	-1.14	0.70	9.1	18	6	10	15	s.	U. S. Weather Bureau.
Parsons.....	Tucker.....	1,662	12	22.2	-9.7	52	19	-28	13	57	4.05	-0.89	1.45	19.5	9	5	14	12	.....	J. W. Swisher.
Philippi.....	Barbour.....	1,192	18	23.8	-8.6	56	18	-34	13	56	2.25	-1.82	0.72	13.4	20	5	9	17	nw.	J. D. Dadisman.
Pickens.....	Randolph.....	2,785	20	23.3 ^b	-8.1	54	18	-16	6	50 ^b	6.93	+0.74	1.90	34.0	15	4 ^b	5	20 ^b	w.	Dr. J. L. Cunningham.
Pineville.....	Wyoming.....	2																	.....	W. V. Santer.
Point Pleasant.....	Mason.....	55																		

TABLE 1.—Climatological data for January, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.		
Ohio—Continued.																			
Canal Dover.	Tuscarawas.	884	19	17.8	-10.1	46	18	-23	13	42	1.69	-1.28	0.32	12.5	12	6	12	13	w.
Canton.	Stark.	1,089	29	20.0	-7.0	47	18	-13	13	34	2.03	-0.89	0.40	10.4	20	2	20	20	w.
Cardington.	Morrow.	1,010	17	17.0	-10.0	44	19	-21	13	44	2.62	+ 0.15	1.13	9.9	6	8	1	22	w.
Chillicothe.	Ross.	630	9																
Cincinnati.	Hamilton.	628	41	22.0	-10.3	48	22	-9	7	33	2.21	-1.15	0.67	13.5	14	10	7	14	w.
Circleville.	Pickaway.	694	24	21.0	-9.2	49	18	-23	13	40	1.59	-1.10	0.40	9.5	9	11	7	13	s.w.
Clarington.	Monroe.	600	9	21.3	-5.3	53	18	-20	13	48	2.06	-0.60	0.30	15	4	4	4	23	s.w.
Columbus.	Franklin.	918	34	19.2	-9.4	46	18	-5	13	32	1.58	-1.37	0.50	8.9	13	6	8	17	w.
Coshocton.	Coshocton.	770	3																
Dayton (1).	Montgomery.	899	18	18.4	-11.2	44	29	-12	7	31	2.25	-0.76	0.83	10.1	13	10	2	19	s.w.
Dayton (2).	do.	790	31	19.0	-9.9	45	29	-19	13	34	2.21	-0.80	0.64	8.2	11	6	8	8	sw.
Delaware.	Delaware.	896	15	18.2	-10.4	42	18	-20	13	33	2.24	-0.57	0.80	8.5	10	17	6	16	s.w.
Demos.	Belmont.	1,325	24	19.1	-10.2	47	18	-13	13	41	1.57	-1.17	0.30	8.3	18	9	9	13	s.w.
Dennison.	Tuscarawas.	846	2	19.9	-4.9	23	16	13	45	2.22	-0.55	0.60	9.8	13	7	14	10	s.	
Frankfort.	Ross.	745	20	21.4	-9.0	52	28	-31	13	41	1.10	-1.72	0.60	10.0	5	11	2	18	w.
Garretttsville.	Portage.	1,005	28	15.4	-9.7	45	17	-30	13	44	3.17	+ 0.18	1.13	14.3	16	5	11	15	w.
Granville.	Licking.	960	30	18.8	-8.4	46	18	-23	13	40	2.05	-0.97	0.45	11.3	14	9	4	18	n.w.
Gratiot.	do.	1,000	23	18.8	-9.9	45	18	-22	13	44	1.36	-1.47	0.40	5.6	14	3	12	16	sw.
Green.	Adams.	500	19	23.8	-9.7	55	18	-20	13	47	2.22	-1.29	0.72	10.2	12	12	10	9	n.
Green Hill.	Columbiana.	1,135	19	15.9	-10.2	46	18	-29	13	50	1.34	-1.37	0.34	8.0	16	4	14	13	s.w.
Greenville.	Darke.	1,060	26	17.0	-10.6	42	17	-18	13	33	1.94	-0.98	0.76	10.0	7	5	14	12	s.
Hamilton.	Butler.	601																	
Haydenville.	Hocking.	700	21	2.2	50	18	-33	13	51	1.55	-0.60	0.60	9.0	10	13	3	15	w.	
Hillsboro.	Highland.	1,063	33	20.0	-11.5	46	87	-11	13	39	2.35	-0.72	0.48	14.3	13	10	9	12	sw.
Ironton.	Lawrence.	575	29	26.1	-6.7	57	23	-11	13	46	3.14	-0.61	0.87	15.5	12	9	12	10	sw.
Jacksonburg.	Butler.	975	44	18.4	-9.3	43	29	-13	13	39	3.29	-0.36	1.61	13.0	7	13	6	12	ne.
Kenton.	Hardin.	1,015	20	15.2	-12.2	58	23	-24	13	36	1.51	-1.41	0.62	6.0	7	10	7	13	w.
Killbuck.	Holmes.	1,087	19	17.2	-10.9	48	18	-19	13	40	2.43	-0.01	0.75	12.4	18	15	3	13	se.
Lancaster.	Fairfield.	898	17	21.5	-8.3	50	18	-22	13	58	1.59	-1.64	0.70	10.2	9	12	2	17	n.w.
McConnelsville.	Morgan.	710	28	20.0	-10.2	50	18	-26	13	44	1.75	-1.60	0.55	14.2	11	7	3	21	s.
Marietta.	Washington.	627	92	23.6	-8.0	52	18	-21	13	40	1.97	-1.24	0.76	7.5	15	3	10	18	w.
Marion.	Marion.	980	34	17.4	-9.5	40	18	-15	13	34	2.83	+ 0.18	0.68	12.5	11	8	7	16	w.
Millerton.	Knox.	1,200	20	16.7	-8.5	43	18	-19	13	42	1.82	-1.03	0.82	8.0	12	7	10	14	sw.
Milligan.	Perry.	875	19	19.6	-10.2	48	18	-37	13	50	1.09	-1.59	0.40	7.0	10	8	9	14	w.
Millport.	Columbiana.	1,145	19	16.6	-10.9	46	18	-28	13	45	1.38	-1.25	0.50	11.2	15	5	4	22	n.w.
Nellie.	Coshocton.	850	12	18.8	-9.6	46	17	-26	13	48	2.37	-0.35	0.90	6.0	10	7	18	6	sw.
New Alexandria.	Jefferson.	1,050	27	17.8	-10.9	51	1	-17	13	43	2.20	-1.22	0.50	15.0	9	13	1	17	w.
New Berlin.	Stark.	1,100	19	15.3	-11.4	42	18	-18	13	44	1.73	-0.56	0.40	10.1	12	9	3	19	n.w.
New Waterford.	Columbiana.	1,053	17	16.5	-10.7	48	18	-30	13	40	1.85	-1.35	0.65	8.0	6	3	28	0	sw.
Ohio State Univ.	Franklin.	757	29	18.8	-8.7	45	18	-23	13	35	1.51	-1.43	0.36	11	3	11	17	w.	
Pataskala.	Peebles.	1,015	20	18.2	-9.4	45	18	-15	13	43	1.92	-1.09	0.51	8.3	18	4	16	11	w.
Peebles.	Adams.	645	1	22.6	56	18	-25	13	47	1.70	-0.86	0.70	7.7	10	4	21	6	w.	
Philo.	Muskingum.	1,018	17	19.0	-10.8	47	18	-7	8	42	1.46	-0.86	0.70	9.0	6	9	6	16	n.w.
Piqua.	Miami.	847	12																
Plattensburg.	Clark.	1,130	19	17.4	-10.3	42	187	-12	13	38	1.67	-1.29	0.42	9.0	8	12	5	14	w.
Portsmouth.	Scioto.	527	81	23.6	-11.1	54	18	-12	13	35	2.75	-0.68	0.70	12.0	9	6	2	23	w.
Prospect.	Marion.	909	2																
Rittman.	Wayne.	990	19	15.5	-11.9	42	18	-24	13	35	1.68	-1.05	0.50	11.0	9	7	4	20	n.
Shenandoah.	Richland.	1,100	20	15.3	-10.8	44	29	-19	13	35	2.23	-0.32	0.88	5.6	11	2	15	14	sw.
Sidney.	Sheiby.	985	29	17.2	-9.4	39	187	-21	13	33	1.89	-0.88	0.60	6.8	12	3	14	12	s.w.
Somerset.	Perry.	1,080	13	20.6	-10.1	46	18	-10	13	38	2.23	-0.88	0.75	15.5	11	10	9	12	sw.
Springfield.	Clark.	980	18																
Summerfield.	Noble.	1,187	6	20.0	50	19	-28	13	50	1.77	-0.59	0.59	10.3	15	6	13	12	sw.	
Syracuse.	Meigs.	583	1	25.0	54	23	-13	13	41	3.54	-0.82	0.82	13.5	13	4	16	11	w.	
Thurman.	Gallia.	699	19	23.4	-9.3	53	17	-11	13	40	2.90	+ 0.09	1.20	11.0	6	8	13	10	sw.
Urbana.	Champaign.	1,031	44	16.8	-10.8	41	29	-24	13	38	2.68	+ 0.03	0.82	11.7	10	8	10	13	sw.
Warren.	Trumbull.	900	23	26.0	-10.5	45b	28	-25	13	35	2.82	-0.17	0.84	14.1	12	7b	6b	16	n.w.
Waverly.	Pike.	590	29	22.8	-7.9	51	18	-25	13	43	1.76	-1.63	0.55	12.6	14	3	14	14	sw.
Waynesville.	Warren.	700	27	18.5	-11.2	45	28	-15	13	38	1.30	-2.04	0.35	7.9	9	12	8	11	sw.
Wooster.	Wayne.	1,030	33	16.6	-9.9	44	18	-24	13	37	2.30	-0.79	0.50	8.8	13	3	6	22	n.w.
Youngstown.	Mahoning.	846	19																
Zanesville.	Muskingum.	700	25								1.29	-1.53	0.64	8.0	7	6	1	24	(& n.w.)
Indiana.																			
Anderson.	Madison.	892	17	16.1	-12.7	40	18	-20	13	33	1.67	-0.94	0.80	7.4	9	13	7	11	w.
Attica.	Fountain.	522	2								2.18	-1.21	0.95	9	9	6	16	ne.	
Bloomington.	Monroe.	744	17	18.0	-12.5	46	17	-19	7	60	3.02	-0.33	1.19	11.9	9	9	6	16	
Bluffton.	Wells.	835	17	14.8	-12.0	41	18	-20	13	34	1.83	-0.58	0.67	6.0	11	12	8	11	w.
Butlerville.	Jennings.	767	27	20.8	-9.7	49	28	-16	7	31	4.27	+ 0.25	1.20	15.2	11	18	4	9	w.
Cambridge City.	Wayne.	941	21	19.7	-7.2	42	23	-26	13	47	2.59	-0.30	0.82	9	14	7	10	10	
Columbus.	Bartholomew.	632	29	19.4															

TABLE 1.—Climatological data for January, 1912. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.				
																Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
<i>Indiana—Continued.</i>																			
Monticello.	White.	674	2	-10.2	46	29	-16	7	33	1.60	-0.82	1.13	2.2	6	11	10	10	w.	
Moore Hill.	Dearborn.	980	11	19.8	55	23	-21	7	54	2.55	-0.82	1.00	9.2	12	14	5	12	nw.	
Mount Vernon.	Posey.	410	26	23.6	-9.9	55	-28	16	41	4.14	+0.68	1.40	20.0	7	14	5	12	n.	
Paoli.	Orange.	611	15	21.2	-11.4	52	-28	17	30	3.07	-0.22	0.88	16.5	8	16	5	10	sw.	
Princeton.	Gibson.	481	30	21.6	-9.4	54	-17	7	30	4.62	+1.29	1.50	21.5	5	18	2	11	nw.	
Richmond.	Wayne.	972	27	17.2	-10.0	42	-25	13	33	2.12	-0.69	1.07	6.0	11	4	14	13	.....
Rochester.	Fulton.	775	7	15.0	39	18	-15	7	28	1.43	-0.88	0.88	7.5	4	9	5	17	.....
Rockville.	Parke.	722	26	26.0	58	23	-19	7	39	2.65	+0.19	0.85	14.7	7	13	4	14	nw.	
Rome.	Perry.	370	9	26.0	41	18	-24	13	33	3.06	-0.90	1.30	13.0	13	10	5	16	sw.	
Salamonia.	Jay.	7	15.2	50	23	-26	16	38	3.33	-0.30	1.15	12.0	8	13	7	11	w.		
Salem.	Washington.	717	19	20.6	-11.4	50	-23	13	33	3.62	+0.06	1.46	12.0	7	15	6	10	.....
Scottsburg.	Scott.	570	18	23.3	-10.0	51	-26	13	43	3.02	-0.55	0.98	11.3	6	10	12	9	sw.	
Seymour.	Jackson.	610	25	21.6	-10.0	50	-22	13	40	1.79	-0.67	0.67	7.9	13	2	20	9	nw.	
Shelbyville.	Shelby.	768	8	17.9	43	22	-18	7	33	3.53	-0.88	1.37	10.8	5	3	3	10	.....
Shoals.	Martin.	523	5	22	-11.4	47	-18	7	30	1.79	-0.86	1.02	8.0	8	18	3	10	nw.	
Terre Haute.	Vigo.	498	22	18.4	-11.4	47	23	18	30	1.71	-0.67	1.20	4.4	16	6	9	n.	Prof. R. G. Gillum.	
Wheeling.	Fountain.	612	13	16.3	-11.5	43	-23	13	37	4.50	+0.61	1.22	21.0	8	21	2	8	.....
Vevay.	Switzerland.	525	31	22.8	-9.6	50	-23	13	30	6.70	+2.72	1.88	25.0	10	7	10	14	ne.	
Vincennes.	Knox.	431	20	20.6	-10.4	52	-18	7	48	3.35	+0.13	1.00	12.0	7	13	2	16	nw.	
Washington.	Daviess.	484	16	20.8	-10.6	50	-23	17	27	3.02	-0.39	0.98	7.0	5	15	4	12	sw.	
Whitestown.	Boone.	529	4	15.0	41	17†	-16	7	52	1.74	-0.70	9.2	11	10	11	10	sw.		
Winona Lake.	Kosciusko.	865	5	14.1	40	18	-17	7	28	1.31	-0.86	7.2	10	3	13	15	w.		
Worthington.	Greene.	526	30	21.9	-7.1	47	23	-22	7	36	1.87	-1.14	0.90	9.5	8	11	12	8	sw.
<i>Illinois.</i>																			
Albion.	Edwards.	531	21	20.8	-10.7	50	23	-19	7	31	2.87	-0.16	1.05	15.8	7	19	3	9	nw.
Carmi.	White.	399	.....	.....	.....	.....	.....	.....	.....	1.02	-0.50	0.8	3	8	13	10	.....	Daniel Berry.
Casey.	Clark.	645	.....	.....	.....	.....	.....	.....	.....	1.04	-1.15	0.51	8.1	5	8	10	13	.....
Charleston.	Coles.	730	27	17.0	-11.0	44	23	-22	7	36	1.44	-1.12	0.86	4.7	7	9	5	17	nw.
Danville.	Vermilion.	604	11	16.6	-9.3	44	-22	-19	13	35	4.04	+0.61	1.22	21.0	8	21	2	8	n.
Equality.	Gallatin.	421	14	25.0	-10.1	59	-20	13	40	4.50	+0.61	1.22	21.0	8	21	2	8	.....
Fairfield.	Wayne.	495	19	21.4	-11.6	58	-22	-18	7	34	1.85	-0.90	0.45	12.2	8	15	2	14	nw.
Flora.	Clay.	495	26	19.2	-10.9	48	-23	-16	7	30	1.42	-1.64	0.67	8.5	4	17	3	11
Golconda.	Pope.	500	34	25.1	-8.8	56	-23	-16	7	37	4.57	+0.88	1.76	17.0	7	17	2	12	no.
Hooperston.	Vermillion.	715	10	14.4	40	18†	-20	7	29	1.71	-1.22	1.08	6.0	11	13	6	12	.....
McLoansboro.	Hamilton.	462	29	21.5	-10.0	54	23	-19	7†	34	2.92	-0.06	0.85	12.0	8	15	5	11	nw.
Metropolis.	Massac.	346	.....	.....	.....	.....	.....	.....	.....	2.29	-0.80	12.0	5	12	13	6	11	.....
Montrose.	Effingham.	599	12	18.2	-9.8	48	22†	-25	7	34	0.95	-1.04	0.30	6.3	6	12	13	6	nw.
Mount Carmel.	Wabash.	424	11	20.3	-11.1	54	23	-17	7	35	3.88	-0.06	1.08	18.0	8	20	1	10	ne.
New Burnside.	Johnson.	556	17	23.2	-11.4	58	23	-26	13	45	3.16	-0.15	1.17	18.6	8	20	1	10
Newton.	Jasper.	484	.....	.....	.....	.....	.....	.....	.....	1.28	-0.77	5.8	4	22	20	9	9	.....
Oliny.	Richland.	486	25	21.4	-10.3	56	23	-21	7	31	1.75	-1.06	0.94	7.9	5	11	9	11	n.
Palestine.	Crawford.	500	30	20.4	-8.4	51	23	-20	7	29	1.23	-1.67	0.65	8.5	8	10	9	12	sw.
Paris.	Edgar.	600	19	16.1	-11.8	45	18†	-20	7	49	1.09	-1.26	0.50	5.7	5	16	2	17	nw.
Philo.	Champaign.	700	28	14.8	-10.9	42	23	-26	7	30	1.35	-0.95	0.84	5.2	6	13	10	8	nw.
Rantoul.	do.	768	21	14.4	-11.0	41	21†	-20	7	33	1.50	-0.66	1.10	6.3	5	15	2	14
Rileyville.	Saline.	400	.....	.....	.....	.....	.....	.....	.....	2.87	-0.78	11.0	7	16	2	13	n.	William Breiner.
Shawneetown.	Gallatin.	307	.....	.....	.....	.....	.....	.....	.....	3.69	-1.32	12.2	8	11	11	9	9	.....
Summer.	Lawrence.	459	6	20.5	50	23	-21	13	34	2.45	-1.20	12.5	6	11	11	9	9	w.	
Tuscola.	Douglas.	644	19	21.0	52	23	-22	7	32	1.36	-0.93	0.92	5.0	4	0	22	9	sw.	
Urbana.	Champaign.	725	10	13.8	-11.4	42	22	-22	7	32	1.36	-0.93	0.92	5.0	4	0	22	9
<i>Kentucky.</i>																			
Alpha.	Clinton.	18	32.8	-7.1	59	23	-6	16	37	3.91	-0.55	2.00	8.1	6	15	1	15	w.	
Anchorage.	Jefferson.	700	11	22.1	-11.4	52	23	-13	7	38	1.64	-1.72	0.42	13.7	6	18	3	10	sw.
Bardstown.	Nelson.	637	15	25.4	-10.4	57	23	-14	16	47	4.17	-0.10	2.00	11.0	6	11	0	20
Beattyville.	Lee.	650	8	24.2	60	23	-18	16	65	4.04	-0.03	0.94	24.0	13	7	6	18	n.
Beaver Dam.	Ohio.	441	9	26.6	59	23	-20	16	57	2.88	-0.27	1.20	11.0	4	16	2	13	s.
Berea.	Madison.	1,070	11	27.2	-9.8	57	19	-14	13	44	3.57	-0.27	1.18	15.5	10	14	2	15	sw.
Blandville.	Ballard.	445	31	27.0	-6.4	61	28	-14	7	34	3.25	-1.16	1.55	8.6	7	15	8	12	n.
Bowling Green.	Warren.	500	23	27.3	-9.7	57	23†	-11	7	45	2.78	-0.32	1.73	9.3	7	12	3	16	n.
Burnside.	Pulaski.	773	21	27.4	58	23	-15	7	34	3.43	-0.32	1.00	4.8	8	7	9	15	.....
Calhoun.	McLean.	397	9	27.4	58	23	-15	7	34	4.09	-1.24	1.35	13.0	7	12	8	11	nw.	
Cattlettsburg.	Boyd.	544	23	25.4	-10.2	60	23	-16	7	57	2.66	-1.24	0.86	11.0	8	13	1	17	w.
Earlington.	Hopkins.	370	22	25.4	-10.2	60	23	-16	7	57	4.44	+0.31	1.28	18.0	5	14	0	17	nw.
Edmonton.	Metcalf.	600	21	29.4	-6.5	58	23	-16	10	42	2.57	-1.48	1.00	11.1	7	11	2	11	w.
Eubank.	Pulaski.	1,177	18	25.6	-8.8	56	23	-8	13	39	2.28	-1.39	0.90	12.0	6	9	2	20	sw.
Falmouth.	Pendleton.	530	23	23	57	23	-16	7	32	1.92	-1.35	0.65	8.5	8	11	4	16	w.	
Farmers.	Rowan.	668	6	25.3	55	18	-9	16	46	2.72	-1.01	8.0	10	11	3	17	w.		
Frankfort.	Franklin.	560	21	28.0	55	21	-12	16	35	1.72	-1.90	0.55	11.1	9	12	4	15	n.	
Franklin.	Simpson.	691	8	3															

TABLE 1.—Climatological data for January, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unimpaired.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Tennessee.</i>																				
Ashwood.	Maury.	725	33	34.5	-4.8	64	26	-8	7	36	3.50	-1.44	1.05	2.5	9	8	15	w.	Mrs. Joseph W. Fleming.	
Benton.	Polk.	880	27	35.1	-5.4	66	27	3	16	40	3.59	-1.01	1.75	2.0	8	11	7	13	n.	George L. Williams.
Birds Bridge.	Greene.	6	—	—	—	—	—	—	—	1.78	—	0.43	1.5	14	10	1	20	w.	David B. George.	
Bluff City.	Sullivan.	15	—	—	—	—	—	—	—	2.70	+0.10	0.58	4.5	13	8	4	19	e.	John W. Fisher.	
Byrdstown.	Pickett.	1,026	19	32.2	-5.8	58	18†	-3	16	35	3.65	-0.55	1.10	3.5	7	9	12	10	w.	John Lacy.
Carthage.	Smith.	500	28	33.5	-4.1	63	18	6	8	41	2.78	-1.49	1.13	—	11	9	1	21	nw.	Earl C. Pickering.
Cedar Hill.	Robertson.	625	12	30.2	-8.4	59	23	-14	7	39	2.55	-1.41	0.70	5.5	9	17	9	5	n.	J. Frank Ruffin.
Celina.	Clay.	494	9	—	—	—	—	—	—	3.46	—	1.21	5.2	7	9	0	22	nw.	Chas. M. Anderson.	
Center Point.	Chester.	400	15	—	—	—	—	—	—	2.67	-0.90	1.34	3.8	6	19	0	12	n.	Halbert H. Bailey.	
Charleston.	Bradley.	709	15	—	—	—	—	—	—	4.43	-0.35	2.10	0.1	10	6	1	24	n.	John T. Weeks.	
Chattanooga.	Hamilton.	808	33	35.8	-4.7	69	27	3	16	31	3.94	-1.62	2.05	2.8	12	9	10	12	nw.	U. S. Weather Bureau.
Clarksville.	Montgomery.	500	49	31.6	-5.6	61	23†	-9	7	32	3.20	-0.94	1.20	5.5	9	16	5	10	n.	Prof. James A. Lyon.
Clinton.	Anderson.	800	24	—	—	—	—	—	—	2.89	-1.88	1.16	2.4	10	12	0	19	s.	Hugh Evans.	
Dandridge.	Jefferson.	—	—	—	—	—	—	—	—	2.18	—	0.62	1.5	6	13	2	16	w.	James E. Swann.	
Decatur.	Meigs.	850	16	34.0	-5.7	65	27	1	16	44	3.99	-0.07	1.79	2.0	11	11	7	13	nw.	J. Worth Lillard.
Dickson.	Dickson.	800	16	33.4	-5.0	62	26	-16	7	43	2.97	-1.76	0.95	5.0	7	18	3	10	n.	Nathan R. Sugg.
Dover.	Stewart.	500	17	31.7	-7.4	62	23	-8	7	39	3.83	-0.49	1.25	4.0	7	14	7	10	s.	Asa M. Tippit.
Dunlap.	Sequatchie.	720	3	35.4	—	65	26†	3	16	38	—	0.90	2.77	—	6	8	11	12	e.	S. Bradford Boyd.
Elizabethhton.	Carter.	1,575	22	—	—	—	—	—	—	3.89	+1.00	1.40	—	15	15	0	16	e.	Charles Boyd.	
Erasmus.	Cumberland.	1,850	15	30.5	-6.6	61	27	-5	16	46	4.64	-0.23	2.47	2.2	10	11	8	12	sw.	Mrs. Sara E. Ashley.
Florence.	Rutherford.	500	36	34.0	-4.6	60	18†	5	7	45	3.48	-0.92	0.97	4.5	3	14	8	9	n.	Erastus P. Bell.
Franklin.	Williamson.	648	22	33.8	-3.9	64	26	-6	7	38	3.69	-0.56	0.97	3.0	6	18	1	12	n.	Young M. Rizer.
Halls Hill.	Rutherford.	10	—	—	—	—	—	—	—	3.25	—	1.22	3.0	7	11	1	19	n.	Ed. F. Wright.	
Harriman.	Roane.	841	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hohenwald.	Lewis.	983	26	34.0	-4.4	64	26	-9	7	37	4.75	-0.07	1.08	3.0	8	12	11	8	w.	John Lutzelman.
Iron City.	Lawrence.	600	15	35.2	-5.3	66	26	-1	7	38	3.91	-0.97	1.65	2.0	6	9	15	7	nw.	Capt. H. Paul Seavy.
Jefferson City.	Jefferson.	—	2	—	—	—	—	—	—	2.54	—	1.11	4.4	8	—	—	—	—	—	Calvin C. Maddox.
Johnson City.	Washington.	1,620	1	29.9	-6.6	57	18†	-2	16	44	2.08	-0.84	0.70	3.0	9	8	9	14	w.	Ward Crosby.
Johnsonville.	Humphreys.	364	16	33.3	-6.3	63	23†	-7	7	35	3.39	-0.92	1.36	4.0	9	12	6	13	s.	Miss Sallie B. Matthews.
Kingston.	Roane.	21	—	—	—	—	—	—	—	3.43	—	1.45	2.0	7	9	0	22	n.	Henry Crumbliss.	
Knoxville.	Knox.	977	41	32.8	-4.7	59	23	1	16	28	3.00	-1.97	1.42	3.5	9	11	8	12	sw.	U. S. Weather Bureau.
Lebanon.	Wilson.	522	3	33.6	—	62	26†	-10	7	39	3.65	—	0.85	6.2	9	12	6	13	s.	H. Logan Fields.
Lewisburg.	Marshall.	727	17	35.1	-5.6	67	26	-5	7	42	3.79	-0.79	1.56	2.2	8	11	8	12	e.	Dr. Robert D. Crutcher.
Livingston.	Overton.	1,065	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Loudon.	Loudon.	816	9	—	—	—	—	—	—	3.21	-1.52	1.04	2.6	8	9	2	20	sw.	Robert W. Clark.	
Lynnville.	Giles.	770	24	33.4	-5.7	62	26	-4	7	36	3.77	-0.83	1.10	2.0	6	14	10	7	n.	Col. James H. Burrow.
McGhee.	Monroe.	8	—	—	—	—	—	—	—	3.22	—	1.10	1.5	7	10	0	21	e.	Miss Alice L. Headrick.	
McMinnville.	Warren.	1,011	28	34.3	-4.9	62	26	0	16	38	4.21	-0.61	1.05	3.1	13	7	14	10	nw.	J. Tilden Sparkman.
Maryville.	Blount.	1,050	16	32.8	-6.5	60	26†	0	16	35	2.15	-2.20	0.90	T.	4	12	5	14	w.	Mrs. Sam T. Broyles.
Mountain City.	Johnson.	2,486	15	30.1	-4.7	53	17†	-3	16	52	2.73	-0.84	1.19	7.0	8	15	3	13	se.	Edward E. Barry.
Nashville.	Davidson.	654	41	32.3	-5.7	62	26	-6	7	33	2.92	-1.93	1.07	4.4	9	11	10	10	nw.	U. S. Weather Bureau.
Newport.	Cocke.	1,280	22	33.1	-4.1	58	19	1	16	29	2.39	-1.00	0.50	1.8	13	11	2	18	w.	Dr. Charles T. Burnett.
New River.	Scott.	1,215	5	—	—	—	—	—	—	4.16	—	1.82	3.9	9	3	19	—	—	—	Burl W. Buttram.
Palmetto.	Bedford.	770	19	34.6	-5.0	65	26	-6	7	38	3.50	-1.36	1.15	2.0	5	13	9	9	n.	Mrs. Ross Woods.
Perryville.	Decatur.	387	15	36.0	-3.6	68	18†	-5	7	38	3.19	-1.20	1.10	3.5	6	19	3	9	n.	Oliver C. Kirksey.
Pinewood.	Hickman.	—	5	32.6	—	65	26	-13	7	43	3.12	—	1.25	6.0	7	16	6	9	n.	Miss Carrie Cash.
Rogersville.	Hawkins.	1,150	27	31.8	-4.7	57	18	0	16	34	2.88	-0.69	0.78	3.5	11	13	6	12	w.	Fred Beal.
Ruby.	Morgan.	1,410	24	29.7	-5.9	60	23	-8	16	36	5.24	+0.27	1.27	10.5	10	10	6	15	n.	Samuel G. Wilson.
Savannah.	Hardin.	442	28	36.2	-4.4	57	19	5	7	39	3.72	-0.70	0.95	0.7	7	17	3	11	n.	W. H. Carrington.
Sevierville.	Sevier.	6	33.4	—	60	19	0	16	35	1.93	—	0.96	3.0	11	9	4	18	sw.	Herbert O. Eckel.	
Sewanee.	Franklin.	2,000	16	31.5	-6.7	57	23	-3	16	36	—	—	—	—	12	5	14	n.	Arthur H. Noll.	
Sparta.	White.	920	6	34.2	—	61	24	5	7†	38	3.96	—	1.40	1.0	6	13	4	14	w.	Ernest H. Hull.
Springville.	Henry.	377	9	30.9	—	61	26†	-14	7	43	3.88	—	1.44	4.0	9	19	3	9	n.	Hudnall A. Boden.
Tazewell.	Clairborne.	15	—	—	—	—	—	—	—	3.42	-0.34	1.07	5.5	9	11	2	18	nw.	J. Caloway Carr.	
Tullahoma.	Coffee.	1,075	24	33.4	-4.2	62	26	0	7	34	3.42	-1.70	1.20	2.7	8	8	13	10	s.	O. G. Ray.
Walling.	White.	909	9	—	—	—	—	—	—	3.69	—	1.10	1.5	7	7	2	22	n.	John K. Roberts.	
Waynesboro.	Wayne.	753	26	35.1	-4.4	65	26	-5	7	35	3.95	-0.49	1.13	1.7	8	8	11	12	n.	Harry C. Boyd.
Wildersville.	Henderson.	400	15	34.2	-5.8	62	26	-10	7	40	2.63	-1.27	2.5	7	16	5	10	n.	William R. Wilson.	
Worsham.	Sumner.	550	11	—	—	—	—	—	—	3.38	—	1.00	4.5	6	12	2	17	w.	James G. Elizer.	
Yukon.	Lincoln.	850	15	33.6	-7.2	62	26	-3	7	34	4.98	+0.37	2.20	—	5	8	13	10	n.	William P. Watson.
<i>Alabama.</i>																				
Bridgeport.	Jackson.	660	11	—	—	—	—	—	—	3.46	-0.10	2.24	1.0	8	—	—	—	—	nw.	R. L. Moore.
Decatur.	Morgan.	573	29	35.4	-6.3	65	27	3	8	48	4.57	-0.71	2.34	1.0	9	10	2	19	e.	Ernest A. Carriger.
Florence.	Lauderdale.	563	27	34.8	-6.1	68	26	3	7	44	4.74	-0.07	1.98	1.2	6	12	1	18	e.	Robert E. Coburn.
Guntersville.	Marshall.	580	1	35.5	—	68	27	8	16	42	3.80	—	1.52	1.8	10	7	3	21	se.	L. S. Long.
Madison.	Madison.	573	17	36.2	-4.5	68	27	5	7†	50	4.18	-0.04	2.60	1.5	5	12	3	16	n.	L. S. Hager.
Riverton.	Colbert.																			

TABLE 1.—Climatological data for January, 1912. District No 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
<i>Virginia.</i>																			
Big Stone Gap.....	Wise.....	1,540	21	29.6	- 4.5	58	1	- 7	16	39	3.51	- 0.46	1.60	8.5	9	11	4	n.	Jno. W. Fox, sr.
Blacksburg.....	Montgomery.....	2,170	21	25.7	- 6.7	55	1	- 7	14	34	1.74	- 1.19	0.50	8.6	6	10	9	12 w.	Agricultural Exp. Station.
Burke's Garden.....	Tazewell.....	3,250	17	23.7	- 7.5	50	29	- 19	14	46	3.76	+ 0.60	1.00	15.0	10	7	5	19 w.	C. H. Greever.
Elk Knob.....	Lee.....	3,243	9	28.9	.....	52	23†	- 10	16	30	3.35	.....	1.48	9.2	11	9	5	17 sw.	Henry Nicoll.
Ivanhoe.....	Wythe.....	2,028	8	26.2	.....	48	22	- 2	14†	30	1.29	.....	0.40	4.8	11	14	8	9 w.	Miss Alice Jewett.
Lebanon.....	Russell.....	2,131	2	27.9	.....	57	27	- 6	16	49	4.72	.....	0.92	12.0	11	13	2	16 nw.	R. D. Swain.
Max Meadows.....	Wythe.....	2,028	18	26.4	- 8.3	55	1	- 11	14	39	1.43	- 0.73	0.65	7.0	6	11	8	12 w.	James M. Graham.
Mendota.....	Washington.....	1,350	3	.....	.....	.....	.....	.....	.....	.....	3.55	.....	0.80	9.0	14	.....	4	.....	Frank M. Barker.
Mountain Lake.....	Giles.....	4,348	2	23.1	.....	55	30	- 9	16	33	2.10	.....	0.80	1.0	7	11	5	15 n.	H. E. Dorland.
Radford.....	Montgomery.....	1,773	3	.....	.....	.....	.....	.....	.....	.....	1.69	.....	0.36	6.5	8	.....	.....	.....	Arthur Roberts.
Speers Ferry.....	Scott.....	1,221	16	.....	.....	.....	.....	.....	.....	.....	2.20	- 1.65	0.80	.....	5	.....	.....	.....	Mrs. L. E. Venable.
Wytheville.....	Wythe.....	2,293	19	26.2	- 6.8	52	19	- 3	14	39	1.75	- 2.55	0.61	7.2	8	11	9	11 w.	U. S. Weather Bureau.

*, †, ‡, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for January, 1912. District No. 3, Ohio Valley.*

TABLE 2.—*Daily precipitation for January, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																														Total.					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>Ohio.</i>																																					
Amesville.	Ohio.			T.	T.	.18	T.	.05		.06	.38		.02	.04		.02	.62	.55		.05	T.	T.	.05	T.	.10	.40	T.	.10	.26	1.52							
Bangorville.	Muskingum.			T.		.05	T.	.07	.40		T.		T.		.20	T.	.62	.61		.05	T.	T.	.05	T.	.13	.61	T.	.10	3.09								
Bellefontaine.	Great Miami.			T.		.06		.11	.10		.16		T.		.19	.29	1.02	.38		.04				T.		T.	.21	.03	1.71								
Bladensburg.	Muskingum.			T.		.10	T.	.05	.20	T.		.10		T.		.05	T.	.70	.25		T.		T.		T.		T.			2.06							
Cadiz.	Ohio.			T.	T.	.01	T.	.05	.10		.07	T.	.50		.10		.30	.55		T.	.01	T.	T.	.10	.04	.02	T.	.31	.02	2.23							
Cambridge.	Muskingum.			T.			T.		.20				.40		T.		.10	T.	.15	.20												1.67					
Camp Dennison.	Ohio.			T.	T.	.22	.05	.08	.07		.05	.20		T.		.20	T.		.25	.32		T.		T.		.20						1.68					
Canal Dover.	Muskingum.			T.	T.	.10	.10			.05	.10	.10		T.		.20	T.		.25	.32		T.		T.		.20						1.69					
Canton.	do.			T.		.02	T.	.05	.05	.26	.05	T.	.04	.24		.03	.09	T.	.05	.26	.40		T.		.03	.03	.21	.03	.03	2.03							
Cardington.	Scioto.			T.					.54			.30							1.13															2.62			
Chillicothe||.	do.																																				
Cincinnati.	Ohio.			.02																															2.21		
Circleville.	Scioto.			T.																															1.59		
Clarington.	Ohio.			T.		.01	T.	.08																										2.06			
Columbus.	Scioto.			T.	T.	.01	T.	.15																										1.58			
Coshocton ||.	Muskingum.			T.		.01																													1.48		
Dayton (1).	Great Miami			T.	T.	.01	.20																											2.25			
Dayton (2).	do.			T.	T.	.09																													2.21		
Delaware ||.	Scioto.			T.	T.	.11	T.	.13																										2.24			
Demos.	Ohio.			T.		.02	T.	.10	.07																								1.57				
Dennison.	Muskingum.			T.		.02	.07	T.	.05																								2.22				
Frankfort.	Scioto.			T.																															1.10		
Garrattsville.	Mahoning.			T.		.02	T.	.08	.03																								2.05				
Granville.	Muskingum.			T.		.05																												2.06			
Gratiot.	do.			T.		.14	T.	.04																										1.36			
Green.	Ohio.			T.	T.	.05																												2.22			
Green Hill.	Muskingum.			T.	T.	.03	.04	.13	.03	.01	T.	.13		T.		.05	T.		.20	.50	T.		T.		.05	.02	T.	.10	.02	T.	.34	1.94					
Greenville.	Great Miami			T.		.10																													1.94		
Hamilton ||.	do.			T.																																	
Haydenville.	Ohio.			T.	T.	.01	.18	.03																										1.55			
Hillsboro.	Scioto.			T.	T.	.02	.48																											2.35			
Ironton.	Ohio.			T.	T.	.05	.30																											3.14			
Jacksonburg.	Great Miami			T.																															3.29		
Kenton.	Scioto.			T.		.10																													1.51		
Killbuck.	Muskingum.			T.		.02	T.	.04	.19	.14	.12	T.	.24		T.		.16	T.	.75	.18	T.		.04	.05	.01	T.	.17	.11	.03	.15	.04	2.43					
Lancaster.	Ohio.			T.	T.	.10																												1.59			
McConnelsville.	Muskingum.			T.		.04																													1.75		
Marietta.	Ohio.			T.		.01																													1.97		
Marion.	Scioto.			T.		.03																													1.82		
Milfordton.	Muskingum.			T.		.02																													1.38		
Milligan.	do.			T.		.03	T.	.04																										1.09			
Millport.	Ohio.			T.		.03	T.	.03																										2.37			
Nellie.	Muskingum.	.90		T.																																	
New Alexandria.	Ohio.			T.		.20	T.	.20																											1.85		
New Berlin.	Muskingum.			T.		.04																													1.73		
New Waterford.	Ohio.			T.		.11																															
O. S. University.	Scioto.			T.		.05	T.	.11	.01	T.	.06																										
Pataskala.	Muskingum.			T.		.01	T.	.04	.22	.05	.01	T.	.03																								
Peebles.	Ohio.			T.		.12	T.	.08																													
Philo (1).	Muskingum.			T.		.15																															
Piqua ||.	Great Miami			T.		.14																															
Plattsburg.	do.			T.		.20																															
Portsmouth ||.	Ohio.			T.		.40																															
Prospect ||.	Scioto.			T.																																	
Rittman.	Muskingum.			T.																																	
Shenandoah.	do.			T.		.03																															
Sidney.	Great Miami			T.		.09	T.	.11	.02																												
Somerset ||.	Muskingum.			T.		.25																															
Springfield.	Great Miami			T.		.10																															
Summerfield.	Ohio.			T.		.03	T.	.01	.05	T.	.07	T.	.																								

TABLE 2.—*Daily precipitation for January, 1912. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for January, 1912.* District No. 3—Continued.

TABLE 2.—*Daily precipitation for January, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																													Total.									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
<i>North Carolina—Continued.</i>																																								
Jefferson.....	G. Kanawha	T.	T.	T.	T.	.30	.10			T.	T.	T.	T.	T.																		T.	2.12							
Marshall.....	Tennessee	T.	T.	T.				.08		T.	T.	.05	.05																				.64 T.	.04 0.86						
Murphy ||.....	do	.03	.33					.25	.03	.79				.14	T.	.01																	1.50 T.	3.97						
Rock House.....	Savannah	.18	.26				.30	.90				.02	.20	T.																			.69 2.65 T.	.03 6.10						
Waynesville ||.....	Tennessee		.16				.15	.91				.17																							1.63 T.	4.01				
<i>Virginia.</i>																																								
Big Stone Gap.....	Tennessee	T.	.10	T.		T.	.40	.50			.10	.15	T.	T.																				.20 T.	.10 3.51					
Blacksburg.....	Kanawha	.35		T.		.15					.36																									.08 T.	.1.74			
Burkes Garden.....	Tennessee	.10	.30			.40	T.				.20	.20	.30																						.40 T.	.75 1.1				
Elk Knob.....	do	.10				.05	.30	.46			T.	.40	.02																						.11 T.	.48 .02 3.35				
Ivanhoe.....	Kanawha		.12				.12	.02					.05	T.		.02																			.03 T.	.18 .40 1.29				
Lebanon.....	Tennessee	.18	.21	T.		.18	.46	T.	T.		.60	T.	.21																					.54 T.	.92 4.72					
Max Meadows.....	Kanawha	T.	.12	T.		.20	.20					.02																								.24 T.	.65 1.43			
Mendota ||.....	Tennessee	.15	.20			.35		.40			.10	.04	.03	.07																				.08 T.	.20 3.55					
Mountain Lake.....	Kanawha																																						.30 T.	.80 .62 2.10
Radford ||.....	do		.36				.20		.18			.16																								.23 T.	.16 .30 1.69			
Spears Ferry ||.....	Tennessee								.10																													.80 T.	.20 .30 2.20	
Wytheville.....	Kanawha		.28		T.		.12	.06	.24			.02	T.		T.																				.14 T.	.28 .61 1.75				

• Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for January, 1912. District No. 3.

Date.	Pennsylvania.				West Virginia.								Ohio.																	
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.		Morgan-		Parkers-		Wheel-		Canton.		Cincin-		Colum-		Dayton.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.	35	23	29	25	48	27	45	28	34	19	55	26	34	25	48	24	33	23	32	26	34	25	35	22	32	22	31	20		
2.	32	18	34	23	42	23	40	20	32	14	35	16	34	20	35	19	33	20	34	18	34	23	36	24	34	24	33	23		
3.	26	15	31	24	37	25	37	28	32	25	37	23	34	24	32	25	35	23	33	19	33	22	34	23	31	23	30	20		
4.	27	9	30	7	35	29	35	25	29	9	35	27	33	26	29	17	32	9	33	18	28	8	28	7	26	4	25	3		
5.	10	-2	2	7	-1	30	7	28	4	9	-6	29	-4	12	8	17	-1	9	1	7	1	8	-2	7	2	5	-1	3	-2	
6.	9	-6	12	-2	18	3	25	-1	16	-11	15	-5	14	4	6	-5	9	-2	10	0	8	0	11	1	8	-2	8	-2	2	
7.	13	-14	12	2	18	9	20	6	13	-8	12	5	10	5	10	0	13	1	13	1	9	6	7	-4	5	5	12	-12		
8.	31	-16	40	3	42	5	35	3	42	-4	41	-9	40	4	44	0	38	2	41	2	36	2	34	3	33	1	31	1	32	-2
9.	32	-2	23	1	42	10	40	5	30	-4	43	7	23	9	44	0	17	7	18	3	21	-1	17	4	14	0	12	-2	2	
10.	14	-1	18	6	38	12	35	9	30	-10	38	11	25	10	29	12	23	4	15	1	29	9	17	5	18	6	18	6	6	
11.	15	4	17	9	38	18	38	10	34	6	30	15	25	22	19	17	19	14	23	7	22	9	17	11	15	8	14	7	13	
12.	12	-10	14	0	27	14	33	13	25	-2	31	14	18	13	17	10	12	19	12	23	1	12	0	11	-2	10	-3	9	-3	
13.	12	-27	12	-6	22	-6	34	1	21	-20	16	-20	15	-12	13	-16	14	-12	17	-18	16	-13	13	-6	12	-5	11	-9	9	
14.	24	-10	27	0	30	-2	28	11	29	-12	26	-17	32	-12	30	0	28	-4	28	25	25	4	25	2	30	25	25	3	25	
15.	24	0	27	-1	28	10	28	9	29	3	32	12	20	7	29	8	28	2	24	1	22	0	22	2	22	0	22	2	22	
16.	12	-7	12	-2	16	1	15	-2	10	-3	15	0	16	-2	10	-2	15	0	19	-2	19	-2	16	-5	14	-1	10	-4	4	
17.	35	-7	40	6	50	6	48	3	49	-5	47	-9	49	-2	43	5	43	5	42	3	37	8	43	10	40	9	41	10	40	
18.	45	35	54	40	60	37	52	22	55	43	55	34	54	11	56	41	52	42	54	18	47	37	47	27	46	28	44	25	45	
19.	43	14	44	16	59	27	51	23	51	19	54	34	28	28	54	20	42	17	26	23	41	12	27	14	28	9	25	8	25	
20.	23	-6	28	10	40	17	53	23	35	14	35	11	37	18	30	12	33	12	31	5	26	6	34	10	29	7	30	5	30	
21.	27	15	32	18	39	26	55	20	35	23	35	10	37	19	31	24	34	23	45	9	28	17	35	14	32	15	29	13	28	
22.	36	14	41	31	57	28	58	16	52	34	53	21	52	25	47	27	49	34	45	21	37	26	48	34	40	32	42	28	42	
23.	38	33	44	33	58	43	53	26	49	36	54	46	53	35	46	39	48	36	42	22	40	34	44	38	40	35	38	34	34	
24.	34	14	34	20	55	35	52	27	36	17	51	31	40	35	39	23	36	24	30	23	34	21	38	26	35	21	34	22	34	
25.	21	11	23	18	39	23	48	29	29	17	35	22	28	20	30	20	28	19	24	19	33	22	27	17	29	18	29	18	18	
Mns..	25.7	5.8	28.1	12.7	39.3	19.3	41.1	17.0	33.0	10.9	37.1	13.6	32.7	16.2	32.5	14.7	30.5	14.4	29.8	10.5	28.1	12.0	29.9	14.0	26.4	12.0	26.0	10.8	26.0	

Date.	Ohio.				Indiana.								Philo, Ill.				Kentucky.											
	Marion.		Waverly.		Butlerville.		Evansville.		Indianapolis.		Kokomo.		Rockville.		Worthington.		Beattyville.		Bowling Green.		Earlington.		Greensburg.		Lexington.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.	32	21	36	20	33	17	35	20	30	15	28	13	...	...	32	14	25	11	41	17	35	18	39	16	43	18	33	20
2.	33	19	36	18	42	20	39	26	32	18	26	17	...	...	37	20	23	13	37	16	49	28	46	18	45	18	36	25
3.	31	16	36	21	37	20	34	24	30	14	26	7	...	...	33	17	25	7	34	19	35	25	34	25	39	21	32	24
4.	24	10	31	20	26	17	29	10	19	-1	25	3	...	...	27	10	17	1	34	19	33	22	32	20	34	23	28	8
5.	10	-4	20	4	17	-1	14	5	3	-3	8	-6	...	...	10	2	3	-5	19	6	23	9	20	10	22	8	11	2
6.	6	-4	10	-1	8	-2	12	-4	5	-6	8	-8	...	...	7	-2	-2	10	19	3	22	8	17	8	20	6	13	2
7.	4	-10	13	-7	7	-16	6	-12	3	-16	3	-18	...	...	5	-22	18	0	34	-11	31	-16	19	-9	8	-7	3	
8.	30	-4	36	-7	25	-6	19	5	18	-1	15	-8	...	...	18	-2	10	14	38	-9	37	10	29	-11	39	-12	37	3
9.	25	-2	37	3	20	-2	21	6	12	-2	9	-5	...	...	15	-3	13	-6	25	4	24	5	25	4	23	4	17	5
10.	15	0	34	-2	27	4	39	13	15	3	10	-6	...	...	21	-4	9	-3	44	2	42	10	44	8	42	4	36	14
11.	13	3	20	6	17	10	14	10	6	10	-2	...	...	15	7	3	-1	34	4	35	32	18	15	35	19	31	13	
12.	13	4	29	7	12	0	12	-2	9	-1	10	-3	...	...	14	4	4	-11	18	10	17	15	6	15	9	13	-2	
13.	14	-15	17	-25	14	-3	14	-6	13	-6	11	-18	...	...	16	-20	15	-15	27	-6	27	-8	18	-9	13	-8		
14.	24	-2	25	-13	29	2	26	13	21	5	19	-6	...	...	27	10	22	11	36	-8	24	10	34	9	33	-11	31	9
15.	24	3	28	7	24	-2	21	15	-4	18	-7	...	...	24	-4	16	11	16	5	11	-1	1	16	13	23	-6		
16.	15	-2	15	-10	12	-15	23	-5	12	-9	14	-11	...	...	13	-18	12	-16	24	-18	34	-6	45	-12	28	-17	15	-11
17.	35	5	38	-1	40	9	45	23	41	11	36	9	...	...	3													

TABLE 3.—*Maximum and minimum temperatures for January, 1912. District No. 3—Continued.*

Date.	Kentucky.						Tennessee.										Alabama.		North Carolina.		Virginia.												
	Louisville.		Maysville.		Williamsburg.		Chattanooga.		Johnson City.		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynesboro.		Decatur.		Asheville.		Big Stone Gap.		Wytheville.						
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					
1....	35	21	39	20	48	18	38	30	35	30	36	25	38	25	41	25	38	23	37	28	39	27	58	26	40	21							
2....	40	27	39	19	45	23	35	30	39	23	36	26	47	29	40	28	41	24	45	32	40	27	39	25	38	21	30	19					
3....	34	25	38	23	40	22	42	34	37	29	40	33	36	30	39	33	41	34	38	27	42	35	36	32	38	32	34	25					
4....	30	10	31	21	35	18	37	28	32	28	36	25	35	22	36	28	39	29	36	25	38	29	33	22	38	24	31	17					
5....	13	6	14	4	34	11	32	19	23	13	27	14	27	14	34	16	31	13	33	15	35	21	22	12	30	10	17	3					
6....	12	5	12	1	30	0	32	18	29	9	28	14	30	7	32	17	31	14	33	20	35	20	29	11	30	9	22	2					
7....	6	—	8	14	—	7	36	7	29	17	34	14	27	17	12	—	6	29	5	30	—	5	36	8	31	17	26	19					
8....	32	5	38	—	8	43	2	41	22	45	10	35	19	41	8	40	2	43	5	41	10	44	3	37	23	36	6	33	4				
9....	19	6	21	3	47	9	32	16	24	10	26	13	28	12	36	14	42	12	30	12	44	14	36	9	49	10	38	9					
10....	38	15	39	5	44	15	47	20	41	10	43	19	47	22	45	21	46	14	47	18	49	16	43	13	36	14	34	14					
11....	19	12	23	11	45	16	43	33	40	14	40	30	42	24	48	36	48	32	47	40	52	39	43	27	36	21	42	24					
12....	14	0	17	9	31	20	42	20	35	29	38	17	24	10	43	14	42	14	41	13	23	22	39	19	34	17	33	6					
13....	16	—	5	29	—	8	30	20	31	13	30	15	26	4	28	7	35	8	30	5	30	13	30	14	34	10	17	—	1				
14....	32	9	33	7	20	9	30	24	30	14	30	24	37	26	35	23	36	22	40	25	36	10	30	11	31	8	22	—	3				
15....	24	0	18	9	20	6	32	8	26	15	28	6	29	4	32	14	35	20	35	10	27	26	26	2	28	13	25	—	3				
16....	16	—	6	26	—	12	30	—	4	26	3	20	—	2	23	1	31	2	30	3	33	20	32	4	32	6	23	0	17	—	7	14	0
17....	49	15	45	—	11	29	10	49	21	41	—	1	45	17	55	31	54	26	56	22	58	27	55	7	55	14	41	7	44	5			
18....	49	28	51	26	35	11	53	41	57	13	55	30	58	30	57	44	56	42	61	44	51	29	50	35	53	32	52	25					
19....	30	17	30	22	34	15	51	31	41	27	51	29	35	24	54	25	53	27	51	25	43	31	49	29	36	15	52	25					
20....	39	15	39	10	40	18	50	26	41	22	44	26	46	23	48	24	45	22	49	23	43	25	44	22	43	17	38	17					
21....	89	18	39	11	45	21	52	29	42	22	46	26	48	25	49	22	46	20	51	19	49	26	42	25	42	18	37	19					
22....	52	35	51	14	38	23	59	28	44	22	55	27	59	34	58	29	57	22	61	29	59	25	54	24	50	15	48	29					
23....	54	40	53	34	47	21	63	39	46	24	59	41	61	46	61	41	55	29	61	40	60	26	56	29	53	25	48	37					
24....	42	31	41	32	51	31	59	42	54	26	58	41	54	39	59	36	61	31	59	34	62	31	54	39	52	30	47	33					
25....	87	27	38	21	53	34	52	37	48	28	44	34	51	34	60	46	60	33	62	38	63	40	50	34	49	25	42	30					
26....	44	33	44	21	55	31	64	43	56	28	58	35	62	38	65	43	60	35	65	46	64	43	54	32	45	34	43	32					
27....	37	30	36	28	57	30	69	42	54	35	56	40	50	35	54	37	52	30	59	35	65	45	56	37	45	30	47	28					
28....	51	31	42	29	58	33	51	39	57	34	52	38	58	36	58	40	58	37	59	45	62	42	44	29	45	30	30	25					
29....	50	28	44	31	60	35	51	33	56	42	46	33	51	29	43	31	49	33	53	32	52	42	51	32	50	33	47	27					
30....	29	25	28	28	58	39	42	29	32	32	36	28	35	27	36	25	35	23	34	21	44	28	42	23	48	33	44	23					
31....	36	24	32	26	38	37	41	27	27	22	33	25	41	26	35	27	35	25	40	23	42	27	24	18	29	22	24	19					
Mns.	32.8	16.7	33.5	13.1	41.2	18.7	44.3	27.4	39.3	20.5	40.7	24.9	41.7	22.9	44.3	24.9	44.8	23.5	45.8	24.4	45.6	25.2	40.7	22.1	40.0	19.2	55.7	16.7					

*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

\$\$ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.